



file copy

RECEIVED

JUL 10 2001

TECH CENTER 1600/2900

Page 1 of 17

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003

APPLICATION NO.
09/826,210

APPLICANTS
Springer *et al.*

FILING DATE
April 5, 2001

GROUP
~~1646~~ 1647

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA	AA1	4,785,079	11/15/1988	Gospodarowicz <i>et al.</i>	530	399	12/10/1986
	AB1	4,902,782	02/20/1990	Gospodarowicz <i>et al.</i>	530	399	11/07/1988
	AC1	4,956,455	09/11/1990	Esch <i>et al.</i>	530	399	06/20/1985
	AD1	4,994,559	02/19/1991	Moscattelli <i>et al.</i>	530	399	01/26/1989
	AE1	5,026,839	06/25/1991	Moscattelli <i>et al.</i>	530	27	04/05/1990
	AF1	5,130,418	07/14/1992	Thompson, S. A.	530	399	05/02/1989
	AG1	5,132,408	07/21/1992	Baird <i>et al.</i>	530	399	11/14/1988
	AH1	5,136,025	08/04/1992	Scheuermann <i>et al.</i>	530	413	04/04/1990
	AI1	5,143,829	09/01/1992	Thompson <i>et al.</i>	435	69.4	03/29/1990
	AJ1	5,155,214	10/13/1992	Baird <i>et al.</i>	530	399	01/08/1990
CA	AK1	5,191,067	03/02/1993	Lappi <i>et al.</i>	530	399	04/27/1989

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL1	EP 0 237 966 A2	09/23/1987	Europe			Yes No
	AM1	EP 0 281 822 A2	09/14/1988	Europe			Yes No
	AN1	WO 90/02800	03/22/1990	PCT			Yes No
	AO1	EP 0 363 675 A1	04/18/1990	Europe			Yes No
CA	AP1	EP 0 420 222 A1	04/03/1991	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	1	Ago, H. <i>et al.</i> , "Crystal Structure of Basic Fibroblast Growth Factor at 1.6 Å Resolution," <i>J. Biochem.</i> 110:360-363, Japanese Biochemical Society (1991).
CA	AS	1	Arakawa, T. <i>et al.</i> , "Characterization of a Cysteine-Free Analog of Recombinant Human Basic Fibroblast Growth Factor," <i>Biochem. Biophys. Comm.</i> 161(1):335-341, Academic Press, Inc. (1989).
CA	AT	1	Arakawa, T. <i>et al.</i> , "The Importance of Arg40 and 45 in the Mitogenic Activity and Structural Stability of Basic Fibroblast Growth Factor: Effects of Acidic Amino Acid Substitutions," <i>J. Prot. Chem.</i> 14(5):263-274, Plenum Publishing Corporation (1995).

EXAMINER C. Saoud

DATE CONSIDERED 9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



RECEIVED
JUL 10 2001
TECH CENTER 1600/2900

Page 2 of 17

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003

APPLICATION NO.
09/826,210

APPLICANTS
Springer *et al.*

FILING DATE
April 5, 2001

GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA	AA2	5,206,354	04/27/1993	Seddon <i>et al.</i>	536	23.5	11/23/1990
	AB2	5,217,954	06/08/1993	Foster <i>et al.</i>	514	12	04/04/1990
	AC2	5,252,718	10/12/1993	Baird <i>et al.</i>	530	399	04/27/1992
	AD2	5,302,702	04/12/1994	Seddon <i>et al.</i>	530	399	02/26/1993
	AE2	5,310,883	05/10/1994	Seddon <i>et al.</i>	530	399	11/04/1991
	AF2	5,331,095	07/19/1994	Shadle <i>et al.</i>	530	399	04/12/1993
	AG2	5,332,804	07/26/1994	Florkiewicz <i>et al.</i>	530	399	04/16/1991
	AH2	5,348,863	09/20/1994	Monsan <i>et al.</i>	435	68.1	04/02/1992
	AI2	5,350,836	09/27/1994	Kopchick <i>et al.</i>	530	399	05/04/1992
	AJ2	5,352,589	10/04/1994	Bergonzoni <i>et al.</i>	435	69.4	06/02/1993
CA	AK2	5,360,896	11/01/1994	Senoo <i>et al.</i>	530	399	01/19/1993

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL2	WO 91/09126	06/27/1991	PCT			Yes No
	AM2	WO 91/14785	10/03/1991	PCT			Yes No
	AN2	EP 0 510 662 A1	10/28/1992	Europe			Yes No
	AO2	EP 0 281 822 B1	07/20/1994	Europe			Yes No
CA	AP2	WO 95/08630	03/30/1995	PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	2	Basilico, C. and Moscatelli, D., "The FGF Family of Growth Factors and Oncogenes," <i>Adv. Canc. Res.</i> 59:115-165, Academic Press, Inc. (1992).
CA	AS	2	Blaber, M. <i>et al.</i> , "X-ray Crystal Structure of Human Acidic Fibroblast Growth Factor," <i>Biochemistry</i> 35(7):2086-2094, American Chemical Society (February 1996).
CA	AT	2	Bowie, J. <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990).

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



RECEIVED

JUL 10 2001

TECH CENTER 1600/2900

Page 3 of 17

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CS	AA3	5,371,206	12/06/1994	Seddon <i>et al.</i>	536	23.5	01/05/1994
	AB3	5,387,673	02/07/1995	Seddon <i>et al.</i>	530	399	04/26/1993
	AC3	5,439,818	08/08/1995	Fiddes <i>et al.</i>	435	240.2	12/16/1985
	AD3	5,459,250	10/17/1995	Basilico <i>et al.</i>	536	23.5	01/25/1994
	AE3	5,464,774	11/07/1995	Baird <i>et al.</i>	536	23.51	12/31/1987
	AF3	5,478,804	12/26/1995	Calabresi <i>et al.</i>	514	2	05/26/1994
	AG3	5,482,929	01/09/1996	Fukunaga <i>et al.</i>	514	12	12/23/1992
	AH3	5,491,220	02/13/1996	Seddon <i>et al.</i>	530	399	08/15/1994
	AI3	5,514,566	05/07/1996	Fiddes <i>et al.</i>	435	69.1	04/05/1995
	AJ3	5,514,652	05/07/1996	Watanuki <i>et al.</i>	514	12	10/22/1993
CS	AK3	5,576,288	11/19/1996	Lappi <i>et al.</i>	514	2	06/10/1994

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CS	AL3	WO 96/22369	07/25/1996	PCT			Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CS	AR	3	Burgess, W.H. <i>et al.</i> , "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>J. Cell Biol.</i> 111:2129-2138, The Rockefeller University Press (1990).
CS	AS	3	Burgess, W.H. <i>et al.</i> , "Structure-Function Studies of FGF-1: Dissociation and Partial Reconstitution of Certain of Its Biological Activities," <i>Molec. Reprod. Devel.</i> 39:56-61, Wiley-Liss, Inc. (1994).
CS	AT	3	Cheng, H. <i>et al.</i> , "Spinal Cord Repair in Adult Paraplegic Rats: Partial Restoration of Hind Limb Function," <i>Science</i> 273:510-513, American Association for the Advancement of Science (July 1996).

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



RECEIVED

JUL 10 2001

TECH CENTER 1600/2900

Page 4 of 17

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA	AA4	5,604,293	02/18/1997	Fiddes <i>et al.</i>	530	399	04/01/1994
	AB4	5,612,211	03/18/1997	Wilson <i>et al.</i>	435	378	06/15/1993
	AC4	5,614,496	03/25/1997	Dunstan <i>et al.</i>	514	12	06/02/1995
CA	AD4	5,656,598	08/12/1997	Dunstan <i>et al.</i>	514	12	05/31/1995
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	4	Copeland, R.A. <i>et al.</i> , "The Structure of Human Acidic Fibroblast Growth Factor and Its Interaction with Heparin," <i>Arch. Biochem. Biophys.</i> 289(1):53-61, Academic Press, Inc. (1991).
CA	AS	4	Cunningham, B.C. <i>et al.</i> , "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis," <i>Science</i> 244:1081-1085, American Association for the Advancement of Science (1989).
CA	AT	4	Eriksson, A.E. <i>et al.</i> , "Three-dimensional structure of human basic fibroblast growth factor," <i>Proc. Natl. Acad. Sci. USA</i> 88:3441-3445, National Academy of Sciences of the USA (1991).

EXAMINER

C. Saoud

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



JUL 10 2001

TECH CENTER 1600/2900

Page 5 of 17

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	5	Eriksson, A.E. <i>et al.</i> , "Refinement of the structure of human basic fibroblast growth factor at 1.6 Å resolution and analysis of presumed heparin binding sites by selenate substitution," <i>Prot. Sci.</i> 2:1274-1284, Cambridge University Press (1993).
CA	AS	5	Faham, S. <i>et al.</i> , "Heparin Structure and Interactions with Basic Fibroblast Growth Factor," <i>Science</i> 271:1116-1120, American Association for the Advancement of Science (February 1996).
CA	AT	5	Fox, G.M. <i>et al.</i> , "Production, Biological Activity, and Structure of Recombinant Basic Fibroblast Growth Factor and an Analog with Cysteine Replaced by Serine," <i>J. Biol. Chem.</i> 263(34):18452-18458, The American Society for Biochemistry and Molecular Biology, Inc. (1988).

EXAMINER

C. Saouda

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CS	AR	6	Friedman, S. <i>et al.</i> , "Mutagenesis of the Nuclear Localization Sequence in FGF-1 Alters Protein Stability But Not Mitogenic Activity," <i>Biochem. Biophys. Res. Comm.</i> 198(3):1203-1208, Academic Press, Inc. (1994).
CS	AS	6	Harper, J.W. and Lobb, R.R., "Reductive Methylation of Lysine Residues in Acidic Fibroblast Growth Factor: Effect on Mitogenic Activity and Heparin Affinity," <i>Biochemistry</i> 27:671-678, American Chemical Society (1988).
CS	AT	6	Heath, W.F. <i>et al.</i> , "Mutations in the Heparin-Binding Domains of Human Basic Fibroblast Growth Factor Alter Its Biological Activity," <i>Biochemistry</i> 30:5608-5615, American Chemical Society (1991).

EXAMINER C. Saoud

DATE CONSIDERED 9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>CS</i>	AR	I	Henderson, B. and Blake, S., "Therapeutic potential of cytokine manipulation," <i>TIPS</i> 13:145-152, Elsevier Science Publishers Ltd (1992).
<i>CS</i>	AS	I	Imamura, T. <i>et al.</i> , "Recovery of Mitogenic Activity of a Growth Factor Mutant with a Nuclear Translocation Sequence," <i>Science</i> 249:1567-1570, American Association for the Advancement of Science (1990).
<i>CS</i>	AT	I	Isacchi, A. <i>et al.</i> , "A Mutant of Basic Fibroblast Growth Factor that Has Lost the Ability to Stimulate Plasminogen Activator Synthesis in Endothelial Cells," <i>Ann. NY Acad. Sci.</i> 638:369-377, The New York Academy of Sciences (1991).

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

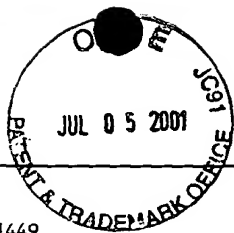
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>A</i>	AR	<u>8</u>	Isacchi, A. <i>et al.</i> , "A six-amino acid deletion in basic fibroblast growth factor dissociates its mitogenic activity from its plasminogen activator-inducing capacity," <i>Proc. Natl. Acad. Sci. USA</i> 88:2628-2632, The National Academy of Sciences of the USA (1991).
<i>Co</i>	AS	<u>8</u>	Kusstatscher, S., <i>et al.</i> , "Different Molecular Forms of Basic Fibroblast Growth Factor (bFGF) Accelerate Duodenal Ulcer Healing in Rats," <i>J. Pharmacol. Exp. Ther.</i> 275:456-461, Williams & Wilkins (1995).
<i>Ch</i>	AT	<u>8</u>	Li, L.Y. <i>et al.</i> , "Diminished Heparin Binding of a Basic Fibroblast Growth Factor Mutant Is Associated with Reduced Receptor Binding, Mitogenesis, Plasminogen Activator Induction, and <i>in Vitro</i> Angiogenesis," <i>Biochemistry</i> 33:10999-11007, American Chemical Society (1994).

EXAMINER

*C. Saund**9/4/02*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	2	Liszewski, K., "Companies Aim Novel Therapeutic Strategies at Dual Nature of Angiogenesis," <i>Gen. Eng. News</i> , May 1, 1997 (6 pages), Mary Ann Liebert Inc. Publ.
AS	AS	2	Logan, A. and Berry, M., "Transforming growth factor- β_1 and basic fibroblast growth factor in the injured CNS," <i>TIPS</i> 14:337-343, Elsevier Science Publishers Ltd (1993).
AT	AT	2	Martin, P., "Wound Healing-Aiming for Perfect Skin Regeneration," <i>Science</i> 276:75-81, American Association for the Advancement of Science (April 1997).

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



RECEIVED

JUL 10 2001

TECH CENTER 1600/2900

Page 10 of 17

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0220003	APPLICATION NO. 09/826,210
	APPLICANTS Springer <i>et al.</i>	
	FILING DATE April 5, 2001	GROUP 1646




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	Ornitz, D.M. <i>et al.</i> , "FGF Binding and FGF Receptor Activated by Synthetic Heparan-Derived Di- and Trisaccharides," <i>Science</i> 268:432-436, American Association for the Advancement of Science (April 1995).
	AS	<u>10</u>	Pantoliano, M.W. <i>et al.</i> , "Multivalent Ligand-Receptor Binding Interactions in the Fibroblast Growth Factor System Produce a Cooperative Growth Factor and Heparin Mechanism for Receptor Dimerization," <i>Biochemistry</i> 33:10229-10248, American Chemical Society (1994).
	AT	<u>10</u>	Presta, M. <i>et al.</i> , "Structure-Function Relationship of Basic Fibroblast Growth Factor: Site-Directed Mutagenesis of a Putative Heparin-Binding and Receptor-Binding Region," <i>Biochem. Biophys. Res. Comm.</i> 185(3):1098-1107, Academic Press, Inc. (1992).

EXAMINER 	DATE CONSIDERED 9/4/02
---	---------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>CS</i>	AR	<u>11</u>	Robinson, C.J., "Growth factors in wound healing," <i>TIBTECH</i> 10:301-302, Elsevier Science Publishers Ltd (1992).
<i>CS</i>	AS	<u>11</u>	Robson <i>et al.</i> , "Modern Ideas and Notations Relating to Primary Structure," in <i>Introduction to Proteins and Protein Engineering</i> , p.41, Elsevier, New York, New York (1986).
<i>CS</i>	AT	<u>11</u>	SCIOS Annual Report, "Fiblast: A Special Report," 8 pages, SCIOS (1996).

EXAMINER

C. Saund

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0220003	APPLICATION NO. 09/826,210
	APPLICANTS Springer <i>et al.</i>	
	FILING DATE April 5, 2001	GROUP 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

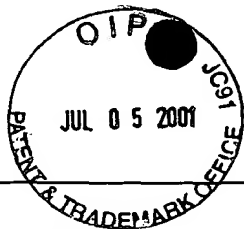
AR	12	Seddon, A.P. <i>et al.</i> , "Engineering of Fibroblast Growth Factor: Alteration of Receptor Binding Specificity," <i>Biochemistry</i> 34:731-736, American Chemical Society (1995).
AS	12	Seno, M. <i>et al.</i> , "Carboxyl-terminal structure of basic fibroblast growth factor significantly contributes to its affinity for heparin," <i>Eur. J. Biochem.</i> 188:239-245, Springer International (1990).
AT	12	Slavin, J., "The Role of Cytokines in Wound Healing," <i>J. Pathol.</i> 178:5-10, John Wiley & Sons, Ltd. (January 1996).

EXAMINER

C. Saoud

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CS	AR	13	Springer, B.A. <i>et al.</i> , Identification and Concerted Function of Two Receptor Binding Surfaces on Basic Fibroblast Growth Factor Required for Mitogenesis," <i>J. Biol. Chem.</i> 269(43):26879-26884, The American Society for Biochemistry and Molecular Biology, Inc. (1994).
CS	AS	13	ten Dijke, P. and Iwata, K.K., "Growth Factors for Wound Healing," <i>Bio/Technology</i> 7:793-798, Nature Publishing Company (1989).
CS	AT	13	Thompson, L.D. <i>et al.</i> , "Energetic Characterization of the Basic Fibroblast Growth Factor-Heparin Interaction: Identification of the Heparin Binding Domain," <i>Biochemistry</i> 33(13):3831-3840, American Chemical Society (1994).

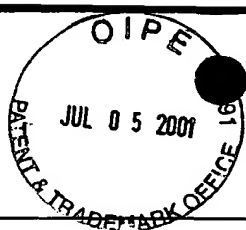
EXAMINER

C. Sana

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	14	Van Brunt, J. and Klausner, A., "Growth Factors Speed Wound Healing," <i>Bio/Technology</i> 6(1):25-30, Nature Publishing Company (1988).
CA	AS	14	Watson, J. <i>et al.</i> , in <i>Molecular Biology of the Gene</i> , Volume 1, Fourth Edition, 226-227, The Benjamin/Cummings Publishing Company, Inc., Menlo Park, California (1987).
CA	AT	14	Wong, P. <i>et al.</i> , "Analysis of Putative Heparin-binding Domains of Fibroblast Growth Factor-1," <i>J. Biol. Chem.</i> 270(43):25805-25811, The American Society for Biochemistry and Molecular Biology, Inc. (1995).

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ls	AR	15	Young, W., "Spinal Cord Regeneration," <i>Science</i> 273:451, American Association for the Advancement of Science (July 1996).
cs	AS	15	Zhang, J. <i>et al.</i> , "Three-dimensional structure of human basic fibroblast growth factor, a structural homolog of interleukin 1 β ," <i>Proc. Natl. Acad. Sci. USA</i> 88:3446-3450, National Academy of Sciences of the USA (1991).
cs	AT	15	Zhu, X. <i>et al.</i> , "Structural studies of the binding of the anti-ulcer drug sucrose octasulfate to acidic fibroblast growth factor," <i>Structure</i> 1:27-34, Current Biology Ltd (1993).

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0220003	APPLICATION NO. 09/826,210
	APPLICANTS Springer <i>et al.</i>	
	FILING DATE April 5, 2001	GROUP 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	16	Zhu, X., "Three-Dimensional Structures of Acidic and Basic Fibroblast Growth Factors," <i>Science</i> 251:90-93, American Association for the Advancement of Science (1991).
CA	AS	16	Zhu, H. <i>et al.</i> , "Glu-96 of Basic Fibroblast Growth Factor Is Essential for High Affinity Receptor Binding," <i>J. Biol. Chem.</i> 270(37):21869-21874, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
CS	AT	16	Patent Cooperation Treaty, International Search Report for PCI/US99/30534, mailed September 1, 2000. Do not Print

EXAMINER C. Saoud	DATE CONSIDERED 9/4/02
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220003APPLICATION NO.
09/826,210APPLICANTS
Springer *et al.*FILING DATE
April 5, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	17	Co-pending U.S. Patent Application No. 09/220,077, filed December 23, 1998.
			Do not Print
CA	AS	17	Co-pending U.S. Patent Application No. 09/722,495, filed November 28, 2000.
			Do not Print
	AT		

EXAMINER

C. Saoud

DATE CONSIDERED

9/4/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.